

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

1. (Previously Presented) A display device comprising:
 - a signal identifying unit that receives an input signal and identifies the type of the input signal;
 - a signal checking unit that checks whether the identified input signal is abnormal;
 - a data setting unit that sets data corresponding to a user input regarding the received input signal, the set data representing how to check the identified input signal; and
 - a signal changing unit that switches from the checked input signal to a next input signal to be checked based on the set data corresponding to the identified type of the input signal so that the signal checking unit checks whether the next input signal is abnormal, if the identified input signal is determined to be abnormal,wherein the signal checking unit senses whether an input signal cable is connected to the display device and checks whether the identified input signal is abnormal by decoding the identified input signal when the input signal cable is connected to the display device.
2. (Original) The display device of claim 1, wherein the signal identifying unit identifies whether the received input signal is one of a D-sub analog signal, a DVI analog signal, a DVI digital signal, and a VIDEO signal.
3. (Cancelled)
4. (Previously Presented) The display device of claim 1, wherein the data setting unit sets one of a number of times the identified input signal is checked, a time required to check the identified input signal, and a position of the identified input signal to be checked within a sequence of identified input signals to be checked,
 - wherein if the signal checking unit has not checked one of the number of set times whether the identified input signal is abnormal and has not checked for the period of set time

whether the identified input signal is abnormal, the signal checking unit continues checking whether the identified input signal is abnormal.

5. (Original) The display device of claim 4, further comprising a signal controlling unit that checks the position of the checked input signal within the sequence of identified input signals to be checked to determine which identified input signal is to be checked after the checked input signal,

wherein the signal changing unit switches from the checked input signal to the determined input signal so that the signal checking unit checks whether the determined input signal is abnormal.

6. (Previously Presented) A method of checking a signal input into a display device, the method comprising:

receiving the input signal and identifying a type of the input signal that is received;

checking whether the identified input signal is abnormal;

setting data corresponding to a user input regarding the received input signal, the set data representing how to check the identified input signal; and

switching from the checked input signal to a next input signal to be checked based on the set data corresponding to the identified type of the input signal so that whether the next input signal is abnormal is checked, if the input signal is checked and is determined to be abnormal,

wherein the checking comprises sensing whether an input signal cable is connected to the display device and determining whether the identified input signal is abnormal by decoding the input signal when the input signal cable is connected to the display device.

7. (Original) The method of claim 6, wherein the identifying comprises determining whether the input signal is one of a D-sub analog signal, a DVI analog signal, a DVI digital signal, and a VIDEO signal.

8. (Cancelled)

9. (Original) The method of claim 6, wherein the checking comprises setting one of a number of times the identified input signal is checked, a time required to check the identified input signal, and a position of the identified input signal to be checked within a sequence of identified input signals to be checked,

wherein if the checking whether the identified input signal is abnormal has not been performed one of the number of set times and checking whether the identified input signal is abnormal has not been performed for the period of set time, checking whether the identified input signal is abnormal continues.

10. (Original) The method of claim 9, wherein the checking further comprises checking the position of the checked input signal within the sequence of identified input signals to be checked to determine which identified input signal is to be checked after the checked input signal,

wherein the checked input signal is switched to the determined input signal so that whether the determined input signal is abnormal is checked.

11. (Previously Presented) A display device comprising:
a signal identifying unit receiving an input signal and identifying the type of received input signal;

a signal checking unit checking whether the identified input signal is abnormal or normal;
and

a signal changing unit switching from the checked input signal to check a next input signal based on set data corresponding to the received input signal so that the signal checking unit checks whether the next input signal is abnormal, the set data representing how to check the identified input signal,

wherein the signal checking unit senses whether an input signal cable is connected to the display device and checks whether the identified input signal is abnormal by decoding the identified input signal when the input signal cable is connected to the display device, and

wherein if the checked input signal is normal, the signal continues being displayed by the display device and if the checked input signal is abnormal, the signal stops being displayed by the display device.

12. (Original) The display device of claim 11, wherein the identified input signal and the next input signal are abnormal if cables carrying the signals are not connected to the display device.

13. (Original) The display device of claim 11, wherein the identified input signal and the next input signal are abnormal if H-sync and V-sync patterns associated with the signals

are abnormal.

14. (Original) The display device of claim 11, wherein the signal identifying unit identifies whether the received input signal is a D-sub analog signal.

15. (Original) The display device of claim 11, wherein the signal identifying unit identifies whether the received input signal is a DVI analog signal.

16. (Original) The display device of claim 11, wherein the signal identifying unit identifies whether the received input signal is a DVI digital signal.

17. (Original) The display device of claim 11, wherein the signal identifying unit identifies whether the received input signal is a VIDEO signal.

18-19. (Cancelled)

20. (Original) The display device of claim 11, further comprising a data setting unit that sets the number of times the identified input signal is checked, wherein if the signal checking unit has not checked the number of set times, the signal checking unit continues the checking.

21. (Original) The display device of claim 11, further comprising a data setting unit that sets the time required to check the identified input signal, wherein if the signal checking unit has not checked the identified input signal for the set period of time, the signal checking unit continues checking whether the identified input signal is abnormal.

22. (Original) The display device of claim 11, further comprising a data setting unit that sets the position of the identified input signal to be checked within a sequence of identified input signals to be checked.

23. (Original) The display device of claim 22, further comprising a signal controlling unit that checks the position of the checked input signal within the sequence of identified input signals to be checked to determine which identified input signal is to be checked after the checked input signal,

wherein the signal changing unit switches from the checked input signal to the determined input signal so that the signal checking unit can check whether the determined input signal is abnormal.

24. (Original) The display device of claim 11, further comprising a menu from which a user determines the identified input signal is to be checked and a checking order.

25. (Previously Presented) A method of checking a signal input into a display device, the method comprising:

receiving an input signal and identifying the type of received input signal;
checking whether the received and identified input signal is abnormal or normal; and
switching from the checked input signal to a next received and identified input signal based on set data corresponding to the received input signal to check whether the next received and identified input signal is abnormal, the set data representing how to check the identified input signal,

wherein the checking comprises sensing whether a signal input cable is connected and decoding the input signal when the signal input cable is connected, and

wherein if the checked input signal is normal, the signal continues being displayed by the display device and if the checked input signal is abnormal, the signal stops being displayed by the display device.

26. (Original) The method of claim 25, wherein the identifying comprises identifying whether the input signal is a D-sub analog signal.

27. (Original) The method of claim 25, wherein the identifying comprises identifying whether the input signal is a DVI analog signal.

28. (Original) The method of claim 25, wherein the identifying comprises identifying whether the input signal is a DVI digital signal.

29. (Original) The method of claim 25, wherein the identifying comprises identifying whether the input signal is a VIDEO signal.

30. (Original) The method of claim 25, wherein the checking comprises checking

whether a cable carrying the received and identified signal is connected to the display device.

31. (Original) The method of claim 25, wherein the checking comprises checking whether H-sync and V-sync patterns associated with the received and identified signal are abnormal.

32-33. (Cancelled)

34. (Original) The method of claim 25, wherein the checking comprises setting the number of times the input signal is checked, wherein if the checking whether the input signal is abnormal has not been performed the number of set times, the checking whether the input signal is abnormal continues.

35. (Original) The method of claim 25, wherein the checking comprises setting the time required to check the input signal, wherein if the checking whether the input signal is abnormal has not been performed for the period of set time, the checking whether the input signal is abnormal continues.

36. (Original) The method of claim 25, wherein the checking comprises checking the position of the input signal to be checked within a sequence of input signals to be checked.

37. (Original) The method of claim 36, wherein the checking further comprises checking the position of the checked input signal within the sequence of input signals to be checked to determine which input signal is to be checked after the checked input signal, wherein the checked input signal is switched to the determined input signal so that whether the determined input signal is abnormal can be checked.

38. (Original) The method of claim 25, wherein the checking comprises determining from a menu the received and identified input signal to be checked and an order of checking.

39. (Previously Presented) The method of claim 25, further comprising:
continuing displaying the input signals if the input signals are in a normal state; and
stopping displaying the input signals if the input signals are in an abnormal state.

40. (Previously Presented) A displaying device having a plurality of input ports comprising:

an input port selection unit for selecting an input port for receiving an input signal;
a signal checking unit for checking whether the selected input port is receiving a normal input signal; and

an input port changing unit for switching from the checked input port to a next input port when the input port is not receiving a normal input signal, wherein at least one of the input ports has priority in an order of checking by the signal checking unit as compared to another input port,

wherein the signal checking unit senses whether a cable via which each signal is input is connected and checks whether the input signal is normal by decoding the input signal when the cable via which each signal is input is connected, and

wherein at least one of the input ports has priority in an order of checking by the signal checking unit as compared to another input port.

41. (Previously Presented) The displaying device of claim 40, wherein the order of checking of the input port is selected among a plurality of checking orders.

42. (Previously Presented) The displaying device of claim 41, wherein the checking order is set by the user.

43. (Previously Presented) The displaying device of claim 42 wherein a menu is provided on a screen of the displaying device to set the checking order.

44. (Previously Presented) The displaying device of claim 40, wherein the input port selection unit selects whether the input signal is one of a D-sub analog signal, a DVI analog signal, a DVI digital signal, and a VIDEO signal.

45. (Cancelled)

46. (Previously Presented) The displaying device of claim 40, wherein the displaying device is capable of displaying a computer signal.

47. (Previously Presented) A displaying device comprising:

an analog input port for receiving an analog signal;

a digital input port for receiving a digital signal; and

an input port changing unit for switching from the analog input port to the digital input port to check whether the digital signal is normal when the displaying device determines that the analog input port is not receiving a normal analog input signal, the switching from the analog input port to the digital input port being based on set data corresponding to the analog signal, the set data representing how to check the analog signal,

wherein whether the analog input port receives the normal analog input signal is determined by sensing whether a cable via which each signal is input is connected and decoding the input signal when the cable via which each signal is input is connected.

48. (Previously Presented) A displaying device comprising:

an analog input port for receiving an analog signal;

a digital input port for receiving a digital signal; and

an input port changing unit for switching from the digital input port to the analog input port to check whether the analog signal is normal when the displaying device determines that the digital input port is not receiving a normal digital input signal, the switching from the digital input port to the analog input port being based on set data corresponding to the digital signal, the set data representing how to check the digital signal,

wherein whether the digital input port receives the normal digital input signal is determined by sensing whether a cable via which each signal is input is connected and decoding the input signal when the cable via which each signal is input is connected.

49. (Previously Presented) A method of checking a signal input into a displaying device, the method comprising:

selecting an input port among a plurality of input ports for receiving an input signal;

checking whether the selected input port is receiving a normal input signal; and

switching from the checked input port to a next input port to be checked when a normal input signal is not being received from the selected input port, wherein at least one of the input ports has priority in an order of checking by the signal checking unit as compared to another input port,

wherein whether the input signal is normal is checked by sensing whether a cable via which each signal is input is connected and decoding the input signal when the cable via which

each signal is input is connected, and

wherein at least one of the input ports can be set to have a priority in an order of checking by the signal checking unit as compared to another input port.

50. (Previously Presented) The method of claim 49, wherein the selecting step selects a D-sub analog port for a D-sub analog signal.

51. (Previously Presented) The method of claim 49, wherein the selecting step selects a DVI analog port for a DVI analog signal.

52. (Previously Presented) The method of claim 49, wherein the selecting step selects a DVI digital port for a DVI digital signal.

53. (Previously Presented) The method of claim 49, wherein the selecting step selects a VIDEO port for a VIDEO signal.

54. (Cancelled)

55. (Previously Presented) The method of claim 49, wherein whether the input signal is abnormal is checked by checking whether H-sync and V-sync patterns associated with the received signal are abnormal.

56. (Previously Presented) The method of claim 49, wherein the order of checking of the input port is selected among a plurality of checking orders.

57. (Previously Presented) The method of claim 56, wherein the checking order is selected by the user.

58. (Previously Presented) The method of claim 57, a menu is provided on a screen of the display device to set the checking order.

59-62. (Cancelled)